

# MATERIAL SAFETY DATA SHEET

## SECTION I

Manufacturer's Name

**DIFCO LABORATORIES, INC.**

Emergency Telephone Number

**(313) 961-0800**

Address (Number, Street, City, State, and Zip Code)

**P.O. BOX 1058**

Chemical Name  
and Synonyms

Trade Name  
and Synonyms

**GRAM IODINE 3331**

**DETROIT MICHIGAN 48232**

Chemical  
Family

Formula

## SECTION II - HAZARDOUS INGREDIENTS

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments		N/A	Base Metal		N/A
Catalyst		N/A	Alloys		N/A
Vehicle		N/A	Metallic Coatings		N/A
Solvents		N/A	Filler Metal Plus Coating or Core Flux		N/A
Additives		N/A	Others		—
Others		—			

## Hazardous Mixtures of Other Liquids, Solids or Gases

	%	TLV (Units)
Iodine (as 100x)	36.4	0.1 ppm

Note: Once diluted for use, the material is no longer

considered hazardous.

## SECTION III - PHYSICAL DATA

Boiling Point (°F)	N/A	Specific Gravity (H <sub>2</sub> O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate _____ = 1)	N/A
Solubility in Water			

**Complete**

Appearance and Odor

**Dark reddish-brown liquid, strong iodine odor**

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits	LeI	Uel
Extinguishing Media	N/A			
Special Fire Fighting Procedures				

N/A

Unusual Fire and Explosion Hazards

N/A

## SECTION V - LISTED IN

NTP	IARC	Other
OSHA		N/A

Date of Preparation: **AUG -- 1985**

**SECTION VI - HEALTH HAZARD DATA**

Threshold Limit Value 0.27 ppm ceiling limit  
Permissible Exposure Limit 0.27 ppm ceiling limit  
Other LD<sub>50</sub> 29mg/kg (unknown-man)  
Effects of Overexposure

Swallowing iodine may cause burning in mouth, vomiting, abdominal pain, and diarrhea. Death may result.

Iodine is a severe irritant of the eyes, respiratory tract, and to a lesser extent, the skin

**Emergency First Aid Procedures****POISON:**

Call a Physician

If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat. Never give anything by mouth to an unconscious person.

In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a Physician. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Primary Routes of Entry**

Ingestion, contact

**SECTION VII - REACTIVITY DATA**

Stability	Unstable		Conditions to Avoid
	Stable	X	

N/A

**Incompatibility (Materials to Avoid)**

Ammonia, powdered aluminum, and other reactive metals may cause fires and explosions.

**Hazardous Decomposition Products**

N/A

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

N/A

**SECTION VIII - SPILL OR LEAK PROCEDURES****Steps to be Taken in Case Material is Released or Spilled**

Small spill: Wipe up with a damp sponge, flush down drain with plenty of water.

Large spill: Absorb liquid in vermiculite, dry sand or similar material and dispose of as below. Treat remaining material as per small spill.

**Waste Disposal Method**

Iodine may be disposed of in sealed containers in a secured, sanitary landfill.

**SECTION IX - SPECIAL PROTECTION INFORMATION**

Respiratory Protection (Specify Type) For large spills - air-supplied mask

Ventilation	Local Exhaust	N/A	Special	--
	Mechanical (General)	Yes	Other	--

Protective Gloves	Rubber	Eye Protection	Goggles
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Other Protective Equipment N/A

**SECTION X - SPECIAL PRECAUTIONS****Precautions to be Taken in Handling and Storing**

Contact lenses should not be worn while working with iodine or iodine solutions.

**Other Precautions**

N/A